INDEX

JOURNAL OF ANALYTICAL CHEMISTRY

Volume 21, 1966

JOURNAL OF ANALYTICAL CHEMISTRY

Volume 21, 1966

(A transliteration of Zhurnal Analyticheskoi Khimi)

A

Afanas'ev, Yu. A. - 330, 1116
Agasyan, L. B. - 1306
Agasyan, P. K. - 861, 1084, 1174, 1306
Ainshtein, A. A. - 653
Akhmedli, M. K. - 912
Akimov, V. K. - 376, 544, 646, 734, 870, 1106
Aksenov, I. A. - 1116
Akulovich, A. M. - 18
Aldarova, N. Sh. - 27
Aleksandrov, A. - 326
Aleksandrova, D. M. - 175
Aleksovskii, V. B. - 353
Alimarin, I. P. - 144, 297, 367 678, 1114
Anashkina, N. P. - 1019
Andreev, A. V. - 1292
Andreichuk, A. M. - 1049
Anikina, L. I. - 1063
Anisimov, Yu. N. - 96
Anisimova, Z. A. - 408
Antonova, M. A. - 891
Antonovskii, V. L. - 221, 454, 1324
Artyukhin, P. I. - 452, 1296
Azarenko, T. G. - 784

B

Babachev, G. N. - 789
Babko, A. K. - 172, 267, 434, 491, 835, 951, 1110
Bagdasarov, K. N. - 591
Bagreev, V. V. - 579
Baibaeva, S. T. - 341
Bakacs-Polgar, E. - 500
Balandina, V. A. - 213, 761
Bandyukova, V. A. - 201
Baranov, S. V. - 998
Bardin, V. V. - 353
Barit, I. Ya. - 1292
Barkovskii, V. F. - 77, 617
Basargin, N. N. - 423, 1259
Bashirov, E. A. - 912
Bashkirova, I. S. - 607
Bazhanova, L. A. - 1049
Bekleshova, G. E. - 700
Belikov, V. M. - 197
Bel'skaya, M. G. - 650, 989
Bel't ukova, S. V. - 771
Belyabskaya, T. A. - 679
Belyaev, Yu. I. - 1145
Belyaeva, G. F. - 757
Berezkin, V. G. - 1098, 1215, 1320
Bernatskaya, M. V. - 777
Bersenev, A. N. - 547
Besproskurnov, G. G. - 395
Bezrogova, E. V. - 1074
Biryukov, A. A. - 624
Bitovt, Z. A. - 507
Blank, A. B. - 687, 919
Blokhina, M. I. - 138
Bobruiskaya, T. S. - 802
Bogdanova, V. I. - 1067
Bol'shova, T. A. - 367
Bondarevskaya, E. A. - 312
Boremskaya, S. F. - 661
Borisova, L. V. - 285
Bragina, S. I. - 22, 376, 734, 870
Brainina, Kh. Z. - 476, 719, 1192
Brodskaya, B. D. - 1287
Brusentsov, A. N. - 385
Bukina, V. K. - 972
Bulgakova, A. M. - 232
Burtseva, E. I. - 1001
Busev, A. I. - 10, 156, 288, 376, 513, 734, 870, 960, 1106, 1146, 1168, 1245, 1259, 1344
Buzlanova, M. M. - 221, 454, 1324
Bykhovskaya, I. A. - 1333
Bykova, L. N. - 683
Bykovskaya, Yu. I. - 1270
Byrko, V. M. - 1245
Bystritskii, A. L. - 353
Bystrova, I. B. - 916

C

Chalaya, Z. I. - 1110
Chamova, V. N. - 1120
Chekulaeva, I. A. - 916
Chelnokova, M. N. - 795
Chemerisskaya, A. A. - 993, 1221
Cherepakhin, A. I. - 449
Cherkashina, T. V. - 634
Chernikhov, Yu. A. - 634
Chernysheva, T. V. - 1159
Chmutova, M. K. - 1079
Chuchalina, L. S. - 1296
Chudnovskaya, O. N. - 1102
Chumachenko, M. N. - 550
Chupakhin, M. S. - 727
Chursina, V. M. - 322
Chuyan, N. K. - 628

D

Dan'shova, T. Ya. - 1186
Dedkov, Yu. M. - 596, 681, 810, 1030, 1353
Degterev, E. V. - 339
Dergachev, V. Ya. - 43
Desyatkova, M. A. - 77
Dmitrova, A. - 189
Dobryshin, K. D. - 668
Dokunikhin, N. S. - 797
Dolgorev, A. V. - 43
Dorokhova, E. N. - 628, 793
Drozdov, V. A. - 186
Dubovenko, L. I. - 491
Dutov, A. G. - 258, 774
Dykhanov, N. N. - 1139
Dymov, A. M. - 805
Dzhidzhelava, A. B. - 1139
Dzintarnieks, M. Ya. - 156

E

Eermakov, V. V. - 399
Efimov, I. P. - 446
Efimychev, V. S. - 1234
Efremenko, O. A. - 865
Egorova, N. F. - 1338
Egorova, O. A. - 797
Elinson, S. V. - 1278, 1342
Emel'yanova, I. A. - 544
Endzheevskii, V. I. - 277
Erdenbaeva, M. I. - 335, 873
Eremin, Yu. G. - 1162, 1267
Ermolaev, N. P. - 62

Ermolenko, I. N. - 81
Ershova, N. I. - 547
Esenina, N. V. - 208
Evtushenko, V. A. - 891

F

Fadeeva, L. A. - 771
Fedorova, G. A. - 457
Fedyashina, A. F. - 1091
Fidel'man, B. M. - 232
Figurovskaya, V. N. - 481, 707
Filatkina, L. A. - 1063
Filenko, A. I. - 1328
Filyugina, A. D. - 144
Fioshin, M. Ya. - 1336
Flis, I. E. - 668
Freidlin, L. Kh. - 322
Frumina, N. S. - 1249
Fursova, A. V. - 522

G

Gabov, N. I. - 979
Galkina, L. L. - 941
Galkina, N. K. - 1036
Gallai, Z. A. - 522, 857
Gal'pern, G. D. - 802
Ganchev, N. - 189
Ganopol'skaya, T. A. - 77
Gel'fer, S. M. - 646
Gel'fman, A. Ya. - 901
Generalova, V. N. - 1230
Gerlit, Yu. B. - 285
Getsova, I. N. - 206
Gibalo, I. M. - 637
Gil'bert, É. N. - 452, 1296
Ginzburg, L. M. - 951
Ginzburg, S. I. - 65
Ginzburg, V. L. - 529
Gitis, S. S. - 1226
Glazunova, L. A. - 941
Glukhova, L. P. - 612
Glushchenko, E. L. - 912
Godovannaya, I. N. - 910
Golikova, M. T. - 1019
Golovina, A. P. - 144, 1346
Golovleva, L. A. - 765
Golubeva, I. A. - 663
Gorokhovskaya, V. I. - 131
Gorokhovskii, V. M. - 72
Gorshkov, V. I. - 881, 984
Gorshunov, O. L. - 1320
Goryanskaya, G. P. - 634
Goryunova, N. N. - 5
Goryushina, V. G. - 208, 222
Grankina, M. Ya. - 906
Grekov, A. P. - 1137, 1243
Grigor'eva, M. F. - 1240
Grinberg, N. Kh. - 566
Grinev, V. S. - 1134
Grushina, N. V. - 873
Gureev, E. S. - 258
Gusev, S. I. - 147, 248, 507, 927, 1053
Gusinskaya, S. A. - 1300

I

Imyanitov, N. S. - 192
Islam, M. - 765
Ismagilova, F. K. - 72
Ivanchev, S. S. - 96
Ivanov, N. P. - 998
Ivanova, G.F. - 1165
Ivanova, M. P. - 429
Ivanova, Z. I. - 227

J

Jirkovsky, R. - 405

K

Kalinichenko, N. B. - 285
Kamenev, A. I. - 282, 481, 707
Kaminskii, A. Ya. - 1226
Kaplan, B. Ya. - 1025, 1128, 1347
Karagodina, A. M. - 370
Karalova, E. K. - 106
Karalova, Z. K. - 782, 847, 1003
Karaulova, E. N. - 802
Karpenko, L. I. - 771
Karyakin, A. V. - 749, 1063
Kharkover, M. Z. - 77, 617
Khokhlova, L. F. - 85
Khrapchenkova, G. V. - 873
Khromov-Borisov, N. V. - 460
Khrustaleva, V. N. - 1012
Khusnutdinov, R. I. - 658
Kirillov, A. I. - 908
Kirillova, T. V. - 1095
Kiryushkin, V. V. - 696
Kish, P. P. - 842
Kist, A. A. - 258
Klement'evskaya, L. N. - 1215
Kleshcheva, M. S. - 213, 761
Kletenik, Yu. B. - 1333
Klitina, V. I. - 297, 965, 1186
Klochko, Z. S. - 376
Knizek, M. - 230
Knyazeva, E. N. - 374
Kochetkov, V. L. - 1118
Kochetkova, N. E. - 380
Kodina, L. A. - 1230
Kokoulin, V. G. - 178, 294
Koksharov, V. G. - 757
Kokushkina, V. A. - 668
Kolokolov, B. N. - 646, 797
Koltunovskaya, A. Yu. - 1338
Komar', N. P. - 1178
Komarova, K. A. - 356
Kondratov, V. K. - 887
Kononenko, L. I. - 1237
Konyushko, V. S. - 434
Kopanskaya, C. S. - 464
Kordyukevich, V. O. - 14
Koreman, I. M. - 462
Korneeva, S. A. - 1287
Kornev, K. A. - 1243
Kornienko, A. G. - 1336
Korol', A. N. - 823
Korolev, N. V. - 671
Kost, A. N. - 765
Kostin, N. V. - 1143
Kotova, V. N. - 1204
Kovalenko, G. S. - 62
Kovalenko, P. N. - 227, 591
Koval'skii, V.V. - 399
Kozachek, V. I. - 1112
Kozin, L. F. - 873
Kozina, Z. A. - 1226
Kozlov, S. T. - 881, 984
Kozlov, V. V. - 1012
Krasil'shchik, V. Z. - 769
Kreshkov, A. P. - 27, 186, 307, 370, 541, 724, 1315
Kreshkova, E. K. - 356
Krishan, I. - 115
Krot, N. N. - 62
Krotova, L. V. - 704
Kruglov, E. A. - 1208
Krylov, Yu. A. - 1174
Krylova, L. P. - 341
Kudritskaya, L. N. - 32
Kukalo, L. Ya. - 1059
Kuklina, N. Ya. - 696
Kuleva, V. M. - 37
Kulik, V. I. - 172
Kulikova, M. N. - 85
Kurcz-Csiky, I. - 500
Kustas, V. L. - 487
Kuus, Kh. Ya. - 976, 1125
Kuvaev, B. E. - 192
Kuznetsov, D. I. - 144
Kuznetsova, E. V. - 215

L

Larikova, G. G. - 312
Lauér, R. S. - 908
Lavrent'ev, Yu. G. - 412
Lazarev, A. I. - 153, 563
Lazareva, V. I. - 153
Lazaris, A. Ya. - 218, 1017, 1141
Lazorina, S. M. - 502
Lebedeva, L. I. - 161
Lebedeva, N. V. - 168

Leenson, F. G. - 550
Leshchiner, A. S. - 674
Leushkina, G. V. - 774
Levin, I. S. - 784
Levina, G. P. - 495
Lezhneva, N. A. - 1208
Lipchina, A. P. - 22
Lipis, B. V. - 566
Lipp, L. A. - 976, 1125
Lisetskaya, G. S. - 1110
Litvin, E. F. - 322
Litvinenko, L. M. - 175
Litvinenko, V. A. - 267
Litvinova, N. F. - 68
Lobanov, E. A. - 1264
Lobanov, E. M. - 258, 658, 774
Lobanov, V. I. - 92, 1340
Lomonosov, S. A. - 206
Lugovskaya, V. I. - 634
Lukin, A. M. - 865, 1159
Luk'yanov, V. B. - 481, 707
Lunina, G. E. - 10, 1259
Lur'e, A. A. - 830
Lushchik, V. I. - 674
Lyakh, R. A. - 168
Lyutova, T. M. - 1017

M

Magdesieva, N. N. - 446
Mairanovskii, V. G. - 183
Malinina, I. V. - 1006
Malkina, É. I. - 408
Malofeeva, G. I. - 469, 681, 1033, 1148
Malolina, T. M. - 1131
Mal'tsev, V. F. - 1070
Malyshev, V. I. - 68
Malysheva, N. V. - 887
Malyshkina, E. A. - 238
Mamontova, L. I. - 487
Man'ko, A. A. - 339
Manuilova, T. A. - 566
Markevich, V. S. - 1015
Markova, L. V. - 835
Martynenko, L. T. - 569, 665
Mar'yanov, B. M. - 811
Mar'yanovskaya, K. Sh. - 972
Maslova, N. T. - 965
Matveev, V. D. - 1315
Meerov, G. I. - 109
Mekhryusheva, L. I. - 221
Men'shova, N. P. - 634, 1287
Meshkova, S. B. - 362, 1153
Mikhailova, L. S. - 491
Mikhailova, T. A. - 460
Mikhel'son, Zp. B. - 1112
Milaev, S. M. - 27, 724
Milyaeva, N. M. - 135
Milyukova, M. S. - 262, 955
Minervina, L. V. - 998
Miranda, K. F. - 946
Mirkind, L. A. - 1336
Mirzayanov, V. S. - 878, 1098
Mirzoyan, N. A. - 1278
Mishchenko, S. A. - 1237
Mitropol'skaya, N. A. - 77
Mladenovic, S. N. - 527
Mokhir, E. P. - 901
Molochnikova, N. P. - 599
Morozova, M. N. - 671
Mukhart, R. - 946
Murashova, V. N. - 303, 1310
Musaelyan, R. M. - 1292
Mustafin, I. S. - 5, 211, 273, 1006
Myasoedov, B. F. - 599, 851, 946, 1028
Myasoedova, G. V. - 533

N

Nabivanets, B. N. - 32
Nasonkina, N. M. - 921
Nazarchuk, T. N. - 661, 910
Nazarenko, V. A. - 168
Nemodruk, A. A. - 262, 380, 612, 1023, 1074
Nesterenko, V. P. - 1149
Nesterov, A. F. - 454
Nevskaya, V. N. - 307
Nguen, B. Kh. - 993, 1221
Nikitin, E. K. - 665
Nikitina, N. G. - 1036, 1148
Nikolaeva, É. M. - 147, 248, 1053
Nikolaeva, E. R. - 1306
Nikolenko, L. N. - 339
Nikol'skii, V. A. - 1098
Nikonova, M. P. - 1153, 1255
Notkina, M. A. - 634, 1287
Novikov, Yu. P. - 851
Novikova, E. N. - 441
Novikova, K. F. - 423

O

Ogareva, M. B. - 513
Okhotnikov, B. P. - 878
Okunev, P. A. - 560
Olefirenko, T. L. - 1110
Olikov, I. I. - 998
Onishchenko, Yu. K. - 842
Orlova, I. Yu. - 186
Orlova, K. B. - 1122
Orlovskii, S. T. - 135
Osadchenko, I. M. - 1331
Osipov, B. S. - 57
Ostroumov, É. A. - 934
Ostrovskii, S. A. - 916

P

Palade, D. M. - 334
Palagina, L. S. - 1178
Palei, P. N. - 106, 111, 782, 1079
Pal'shin, E. S. - 599, 851
Panchenkov, G. M. - 1134
Parimskii, A. I. - 799
Pashchenko, É. N. - 1070
Patyukova, E. I. - 795
Pavlotskaya, F. I. - 138, 495
Pecenkova, V. - 230
Perepletchikova, E. M. - 1141
Perezhogin, G. A. - 677, 787
Peshkova, V. M. - 446
Petrikova, M. N. - 1111
Petrov, A. V. - 749
Petrova, E. I. - 634
Petrova, L. N. - 441
Petrukhin, O. M. - 678
Pevtsov, G. A. - 769
Pilipenko, G. P. - 337
Pisarenko, I. D. - 596
Pligin, S. G. - 328
Plotnikov, V. I. - 1118
Podchainova, V. N. - 43
Podobed, N. D. - 238
Podol'skaya, B. L. - 865
Pofralidi, L. G. - 998
Pogorelova, M. G. - 204
Pokhvalitova, T. G. - 921
Poluéktov, N. S. - 362, 908, 1153, 1237, 1255
Poluéktova, E. N. - 165
Polyak, L. Ya. - 607
Polyanskaya, N. L. - 438
Polyanskii, N. G. - 438
Ponomarev, A. I. - 1270
Popova, A. N. - 37
Popova, O. I. - 910
Potatuev, A. A. - 799
Potrokhov, V. K. - 161
Prikhod'ko, M. U. - 835
Prokhorova, G. V. - 587
Prokhorova, M. I. - 85
Prokop'eva, M. F. - 972
Pronin, V. A. - 452, 1296
Pronman, I. M. - 1292
Prostov, Yu. P. - 547
Protopopova, N. P. - 1296
Protsenko, E. G. - 175
Prudnikov, E. D. - 904
Pyzhova, Z. I. - 106, 782, 847, 1003

R

Raevskaya, V. V. - 1162
Ramanauskas, E. I. - 504
Rezakova, A. S. - 1128
Reznik, B. E. - 1087
Reznikov, V. M. - 1102
Reznitskaya, T. V. - 1001
Romanov, P. N. - 1162, 1267
Rubinskaya, T. Ya. - 522, 857
Rudenko, N. P. - 14
Rudnev, N. A. - 469, 1033
Rudzit, G. P. - 156
Rusina, O. N. - 227
Rus'yanova, N. D. - 757, 887
Ryabchikov, D. I. - 1197
Ryabinin, A. I. - 330, 1116
Rybakova, Yu. A. - 206

S

Sagitullin, R. S. - 1345
Salimova, K. M. - 1120
Samokvalov, G. I. - 183
Sanatina, V. N. - 1149
Saporovskaya, M. B. - 197
Sapozhnikova, É. Ya. - 719, 1192
Satarina, G. I. - 529
Savastenko, G. N. - 81
Savvin, S. B. - 596, 955, 1028, 1267
Sazanova, L. A. - 793
Sednev, M. P. - 18
Selezneva, E. A. - 22
Selimkhanov, I. R. - 113
Senderov, É. É. - 749
Senetskaya, L. P. - 370
Senyavin, M. M. - 1036
Serdyuk, L. S. - 502
Shafiev, A. I. - 979
Shagov, V. S. - 103
Shakhova, Z. F. - 628, 793
Sharipov, R. K. - 713
Sharova, L. A. - 587
Shashkin, M. A. - 332
Shatalov, A. A. - 784
Shcherbakov, V. G. - 395
Shchukina, V. S. - 273, 1006
Shchurova, L. M. - 507, 927
Shelomov, I. K. - 799
Shemetikhina, A. A. - 972
Shepeta, N. G. - 487
Sheskol'skaya, A. Ya. - 1009
Shevchenko, V. V. - 1243
Shibaeva, N. P. - 782, 847, 1003
Shibeva, N. P. - 106
Shinkarenko, A. L. - 201
Shipitsyn, S. A. - 696
Shishkov, A. - 189
Shkaravskii, Yu. F. - 172
Shkodin, A. M. - 1022
Shkvyrya, A. G. - 557
Shlenskayaskaya, V. I. - 624, 1146
Shnaiderman, S. Ya. - 374
Shulik, L. S. - 1067
Shumkova, N. G. - 624
Shumova, V. V. - 671
Sidorov, R. I. - 429
Sinegribova, O. A. - 780
Sinyakova, S. I. - 1351
Sivanova, O. V. - 211
Sizonenko, N. T. - 232
Skrebkova, L. M. - 1296
Skvortsova, A. B. - 441, 445
Smirnov, O. K. - 544, 870, 1106
Smirnov-Averin, A. P. - 62
Smirnova, K. A. - 1159
Songina, O. A. - 135, 713
Sorochkina, R. M. - 218
Sotnikov, V. S. - 671
Spasskii, S. S. - 317
Speranskaya, E. F. - 921
Spivakov, B. Ya. - 285
Starobinets, G. L. - 18
Starodubskaya, A. A. - 591
Stenina, N. I. - 861, 1084, 1174
Stepanovskaya, V. F. - 454, 1324
Stojkovic, D. J. - 388
Strokina, T. G. - 1090
Strongin, G. M. - 85
Strukova, M. P. - 457, 1095, 1204
Sudakov, F. P. - 297, 445, 965, 1186
Sukhanovskaya, A. I. - 749
Sukhomlin, R. I. - 48
Sushkova, S. G. - 1310
Sveshnikova, L. B. - 587
Svistunova, G. P. - 1315
Svyatoshenko, A. T. - 1215

T

Talalaev, B. M. - 1284
Tal'roze, V. L. - 881, 984
Talypina, G. V. - 916
Tantsyrev, G. D. - 881, 984
Tarakanov, O. G. - 560
Tarasov, A. I. - 317
Terent'ev, A. P. - 312
Terent'ev, P. B. - 765
Terent'eva, E. A. - 777, 1131
Tikhonov, V. N. - 243, 737, 906, 1043
Tikhonova, A. A. - 255
Tikhonova, V. I. - 893
Timofeeva, N. I. - 255
Tiptsova, V. G. - 408, 1049
Titova, I. A. - 100, 650, 989, 1212
Titskii, G. D. - 175
Tokareva, S. A. - 337
Tolmachev, N. S. - 339
Tomilov, A. P. - 1331
Trushina, L. F. - 129
Tserkovnitskaya, I. A. - 1240
Tsevun, V. I. - 873
Tsirlin, Yu. A. - 901
Tsyganok, L. P. - 1087
Tsyurupa, M. G. - 1247
Tulyupa, F. M. - 700
Tumanov, A. A. - 1234
Tumovskii, L. A. - 541
Turgel', E. O. - 215
Turkel'taub, N. M. - 653
Turkuvene, V. E. - 504
Tutundzic, P. S. - 388, 527
Tverdyukova, L. B. - 550
Tyuryukanova, É. B. - 138

U

Upolovnikova, I. I. - 547
Usenova, Z. M. - 335
Ustafin, I. S. - 1249

V

Vainshtein, É. E. - 412, 1252
Vakhtina, I. A. - 560
Vasil'ev, V. P. - 898
Vasileva-Aleksandrova, P. - 326
Vigdergauz, M. S. - 557
Vin', D. Kh. - 288, 960, 1168
Vinarova, L. I. - 168
Vinkovetskaya, S. Ya. - 1032
Vinogradova, E. N. - 282, 587, 707
Vitkina, M. A. - 700
Vitol', É. N. - 1122
Vitt, S. V. - 197
Volkov, I. I. - 934
Volkova, N. P. - 1070
Vol'nov, I. I. - 1120
Volodarskaya, Yu. I. - 100, 1212
Volodina, V. I. - 317
Volynets, M. P. - 1197
Vonogradova, E. N. - 481
Vorob'ev, I. M. - 668

W

West, T. S. - 818

Y

Yagodin, G. A. - 780
Yakovlev, Yu. V. - 1145
Yakushkina, E. P. - 1012
Yankauskene, É. - 839
Yankovskii, A. V. - 1264
Yarovenko, A. N. - 27, 307, 356, 724
Yarovoi, D. K. - 1137
Yasinskene, É. - 839
Yatsimirskii, K. B. - 277
Yudelevich, I. G. - 487, 1091, 1296
Yurchenko, E. I. - 596
Yurkevich, Yu. N. - 395
Yurzhenko, A. I. - 96
Yuz'ko, M. I. - 65

Z

Zabornya, V. T. - 547
Zaichko, L. F. - 53
Zakharov, M. S. - 53, 129
Zarinskii, V. A. - 341
Zelyanskaya, A. I. - 1059
Zelyukova, Yu. V. - 362, 1255
Zharovskii, F. G. - 48
Zhdamarov, O. S. - 376, 1106
Zhivopistsev, V. P. - 22
Zhukhovitskii, A. A. - 653
Zhul'kova, M. F. - 385
Zolotavin, V. L. - 1149
Zolotov, Yu. A. - 119, 579, 1079
Zolotovitskaya, É. S. - 232
Zykova, L. I. - 912

TABLE OF CONTENTS

JOURNAL OF ANALYTICAL CHEMISTRY
Volume 21, Numbers 1-12, 1966
(A translation of Zhurnal Analiticheskoi Khimii)

Engl./Russ.

Number 1 January, 1966

Ultramicromethods of Chemical Analysis. Communication 8. Coulometric Titration — I. P. Alimarin and M. N. Petrikova 1 3
A Spectrophotometric Study of bis-(4-Sodium tetrazolylazo-5)-ethyl Acetate in Aqueous Solutions — N. S. Frumina, N. N. Goryunova, and I. S. Mustafin 5 7
A Study of the Dissociation of Sulfonazo (Sulfone-bis-[4-hydroxyphenyl<3-azo-2>hydroxy-8'-aminonaphthalene-3',6'-disulfonic Acid]) — A. I. Busev and G. E. Lunina 10 13
The Interaction of Gold with 8-Mercaptoquinoline and Its Gravimetric Determination — N. P. Rudenko and V. O. Kordyukevich 14 18
Separation of Strontium from Calcium and Magnesium by Ion-Exchange Chromatography — M. P. Sednev, G. L. Starobinets, and A. M. Akulovich 18 23
Antipyrine Dyes as Analytical Reagents. Communication 3. Photometric Determination of Zinc — V. P. Zhivopistsev, E. A. Selezneva, A. P. Lipchina, and Z. I. Bragina . 22 28
Analysis of Rare-Earth Salts in Nonaqueous Solution — A. P. Kreshkov, A. N. Yarovenko, S. M. Milaev, and N. Sh. Aldarova 27 34
Separation of Thorium from Accompanying Elements and Preparation of Analytical Concentrates by Means of Ion-Exchange Chromatography — B. N. Nabivanets and L. N. Kudritskaya 32 40
The Use of o-Nitrobenzoic Acid for the Quantitative Determination of Zirconium and Hafnium — V. M. Kuleva and A. N. Popova 37 46
The Use of Antipyrine Derivatives in Analytical Chemistry. Communication 2. Photometric Determination of Vanadium by Means of Diantipyrylvinylbenzene-methane and Diantipyryl-3,4-dimethoxyphenylmethane — V. N. Podchainova, A. V. Dolgorev, and V. Ya. Dergachev 43 53
Successive Extraction-Photometric Determination of Iron (III), Vanadium (V), and Uranium (VI) as Their Cinnamoylphenylhydroxylaminates — F. G. Zharovskii and R. I. Sukhomlin. 48 59
Amalgam Polarography with Accumulation. Communication 1. Polarographic Behavior of Antimony — L. F. Zaichko and M. S. Zakharov. 53 65
Luminescent Determination of Uranium in Solution in the Presence of Quenching Metals — B. S. Osipov. 57 70
Microvolumetric Complexometric Method for Determining Neptunium — A. P. Smirnov-Averin, G. S. Kovalenko, N. P. Ermolaev, and N. N. Krot 62 76
Determination of Microamounts of Iridium by a Kinetic Method — S. I. Ginzburg and M. I. Yuz'ko 65 79
Spectrographic Determination of Boron in Metallic Calcium and Calcium Oxide — N. F. Litvinova and V. I. Malyshev. 68 83
Oscillopolarographic Determination of Cl^-, Br^-, I^-, Ions on a Silver Electrode — V. M. Gorokhovskii and F. K. Ismagilova 72 87
Chemicospectrographic Determination of Microamounts of Manganese, Nickel, Cobalt, and Copper in Lanthanum Oxide — M. Z. Kharkover, M. A. Desyatkova, V. F. Barkovskii, N. A. Mitropol'skaya, and T. A. Ganopol'skaya 77 94

Engl./Russ.

Microdetermination of Carbonyl Groups in Cellulose Materials by Means of p-Nitrophenylhydrazine Using Diffuse Reflection Spectra — I. N. Ermolenko and G. N. Savastenko 81 98
Determination of Hexachlorocyclohexane by the Isotope Dilution Method Using Chlorine-36 — M. N. Kulikova, G. M. Strongin, M. I. Prokhorova, and L. F. Khokhlova 85 103
Microcrystalloscopic Reactions for Detecting Some Barbituric Acid Derivatives — V. I. Lobanov 92 110
Quantitative Determination of Diacyl Peroxides by Infrared Spectroscopy — Yu. N. Anisimov, S. S. Ivanchev, and A. I. Yurzhenko 96 113
Infrared Quantitative Determination of the cis-Isomer in Mixtures of cis- and trans-β-(4-Aminocyclohexyl) Propionic Acids — I. A. Titova and Yu. I. Volodarskaya ... 100 119
A Spectrophotometric Method for Determining 1,4-Butyleneglycol — V. S. Shagov 103 122

BRIEF COMMUNICATIONS

Determination of Ionium and Total Thorium Isotopes in Uranium Materials — P. N. Palei, E. K. Karalova, N. P. Shibeva, and Z. I. Pyzhova 106 126
An Enzymatic Method for the Quantitative Determination of Microamounts of H_2O_2 in Aqueous Solution — G. I. Meerov 109 128

CRITICISM AND BIBLIOGRAPHY

Analysis of Essential Nuclear Reactor Materials — Reviewed by P. N. Palei 111 130
Earle R. Caley. Analysis of Ancient Metals — Reviewed by I. R. Selimkhanov 113 131
C. Liteanu. Chimie Analitica Cantitativa. Volumetria. — Reviewed by I. Krishan 115 133

CHRONICLES

Anatolii Kirilovich Babko (On His Sixtieth Birthday) 117 135
Analytical Chemistry at the Twentieth Congress on Theoretical and Applied Chemistry — Yu. A. Zolotov 119 137
Conference on the Use of Physicochemical Methods in Chemical Analysis 125 141

Number 2 February, 1966

The Sensitivity of Determining Microimpurities in Solution by Amalgam Polarography with Accumulation on a Mercury Film Electrode — M. S. Zakharov and L. F. Trushina 129 145
Oscillopolarogram Parameters — V. I. Gorokhovskaya 131 148
The Polarographic Reduction of Dichromate Ions on a Rotating Platinum Electrode in a Hydrochloric Acid Supporting Electrolyte — N. M. Milyaeva, S. T. Orlovskii, and O. A. Songina 135 153
Determination of Exchangeable Calcium and Strontium in Soil — F. I. Pavlotskaya, É. B. Tyuryukanova, and M. I. Blokhina 138 157
Fluorescent Reactions of Aluminum with Flavanoids — A. P. Golovina, I. P. Alimarin, D. I. Kuznetsov, and A. D. Filyugina 144 163
A Study of Pyridylazo Compounds as Reagents for Indium. Communication 1. Complexometric and Extraction-Photometric Determination of Indium with 1-(2-Pyridylazo)-4-naphthol — S. I. Gusev and É. M. Nikolaeva 147 166
Rapid Spectrophotometric Determination of Titanium by Means of Diantipyrylmethane and Tartaric Acid — V. I. Lazareva and A. I. Lazarev 153 172
Extraction of Molybdenum Complexes with Thioglycolic Acid in the Presence of Diphenylguanidinium Cations with Binary Solvent Mixtures — A. I. Busev, G. P. Rudzit, and M. Ya. Dzintarnieks 156 176
Effect of Tungsten on Determination of Molybdenum by the Thiocyanate Method — V. K. Potrokhov and L. I. Lebedeva 161 182

Engl./Russ.

Dihydroxychromenols as Reagents for the Photometric Determination of Tungsten — E. N. Poluéktova 165 187
Complexometric Determination of Tetravalent Germanium. Communication 2 — V. A. Nazarenko, N. V. Lebedeva, L. I. Vinarova, and R. A. Lyakh 168 192
The Use of the Phosphomolybdates of Basic Dyes for the Extraction-Photometric Determination of Phosphorus — A. K. Babko, Yu. F. Shkaravskii, and V. I. Kulik 172 196
Determination of Small Amounts of Water in Organic Solvents — L. M. Litvinenko, D. M. Aleksandrova, G. D. Titskii, and E. G. Protsenko 175 200
Radioluminescent Analysis. Communication 1. Radioluminescent Determination of Some Organic Materials — V. G. Kokoulin 178 203
An Improved Polarographic Method for the Determination of Calciferol in the Presence of Retinol — V. G. Mairanovskii and G. I. Samokhvalov 183 210
Analysis of Trialkyldifluorophosphatosilanes and Bis(trialkylsilyl)monofluorophosphates by Titration in Nonaqueous Media — A. P. Kreshkov, V. A. Drozdov, and I. Yu. Orlova 186 214
An Extraction-Photometric Method for Determining Microamounts of Picric Acid as Methylene Blue Picrate — N. Ganchev, A. Shishkov, and A. Dmitrova 189 217
Paper Chromatographic Analysis of the Hydrocarboxylation Products of Butadiene — B. E. Kuvaev and N. S. Imyanitov 192 221
Amino Acid Analysis by Gas Liquid Chromatography — S. V. Vitt, M. B. Saporovskaya, and V. M. Belikov 197 227
The Use of Chromatography on Capron for the Photometric Analysis of Flavonoids in Plant Material — V. A. Bandyukova and A. L. Shinkarenko 201 232

BRIEF COMMUNICATIONS

Analysis of Ludwigite by a Rapid Complexometric Method Using Ion-Exchange Resins — M. G. Pogorelova 204 235
Analytical Reactions of Trivalent Thallium with Reagents Containing the Formazyl Group — S. A. Lomonosov, I. N. Getsova, and Yu. A. Rybakova 206 237
Determination of Phosphorus in Arsenic and Arsenic Trioxide — V. G. Goryushina and N. V. Esenina 208 239
Mercurimetric Determination of Chlorides, Thiocyanates, and Cyanides by Means of 5-(8,1-Sulfonaphthylazo)-8-hydroxyquinoline — O. V. Sivanova and I. S. Mustafin 211 242
Analysis of Vinyl Butyrate by a Gas-Liquid Chromatographic Method — V. A. Balandina and M. S. Kleshcheva 213 243
The Use of Thin Layer Chromatography for Analyzing Intermediates in Etriol (Trimethylolpropane) Synthesis — E. O. Turgel' and E. V. Kuznetsova 215 245
Qualitative and Quantitative Determination of Impurities in Vinylidene Chloride — R. M. Sorochkina and A. Ya. Lazaris 218 248

LETTER TO THE EDITOR

A New Method for the Photometric Determination of Organic Hydroperoxides by Means of Nitrous Acid — M. M. Buzlanova, L. I. Mekhryusheva, and V. L. Antonovskii . . . 221 251

CRITICISM AND BIBLIOGRAPHY

Transactions of the Commission on Analytical Chemistry, Vol. XV. Methods for Concentrating Materials in Analytical Chemistry — Reviewed by V. G. Goryushina . . 222 252
New Books 224 253

Number 3 March, 1966

The Use of Sodium Nitroprusside for the Potentiometric Determination of Copper and Zinc — O. N. Rusina, P. N. Kovalenko, and Z. I. Ivanova 227 257

Spectrophotometric Determination of Copper in Gallium Arsenide and in Metallic Gallium and Arsenic by Means of Neocuproine – M. Knizek and V. Pecenkova 230 260
Extraction Flame-Photometric Determination of Calcium in Special Purity Alkali Halides – N. T. Sizonenko, É. S. Zolotovitskaya, B. M. Fidel'man, and A. M. Bulgakova 232 264
Phototurbidimetric Determination of Small Amounts of Calcium – N. D. Podobed and E. A. Malyshkina 238 269
Photometric Determination of Aluminum with Methyl Thymol Blue – V. N. Tikhonov 243 275
A Study of Pyridylazo Compounds as Reagents for Indium. Communication 2. Complexometric and Photometric Determination of Indium with Pyridylazoaminophenols – S. I. Gusev and E. M. Nikolaeva 248 281
Determination of the Rare-Earths by Means of Xylenol Orange – A. A. Tikhonova and N. I. Timofeeva 255 289
A Radioactivation Method for Determining the Rare-Earths in Some Minerals and Rocks – E. M. Lobanov, E. S. Gureev, A. G. Dutov, and A. A. Kist 258 292
A Study of the Reaction Between Tetravalent Plutonium and Xylenol Orange – M. S. Milyukova and A. A. Nemodruk 262 296
Determination of Microamounts of Titanium by Means of the Catalytic Oxidation of Thiosulfate by Hydrogen Peroxide – A. K. Babko and V. A. Litvinenko 267 302
Organic Reagents in the Analytical Chemistry of Zirconium and Hafnium. Communication 1. Alberon as a Reagent for Zirconium – I. S. Mustafin and V. S. Shchukina 273 309
Determination of Small Amounts of Vanadium on the Basis of Its Catalytic Effect on the Oxidation of Thiocyanate – V. I. Endzheevskii and K. B. Yatsimirskii 277 314
Reproducibility of Bismuth Determination on a Film Electrode Using Amalgam Polarography with Accumulation – A. I. Kamenev and E. N. Vinogradova 282 320
Determination of Large Amounts of Rhenium by Photometric Titration – L. V. Borisova, Yu. B. Gerlit, B. Ya. Spivakov, and N. B. Kalinichenko 285 323
N,N'-Ethylene-bis(o-mercaptobenzamide) as an Analytical Reagent for Cobalt – A. I. Busev and D. Kh. Vin' 288 327
Radioluminescence Analysis. Communication 2. Radioluminescence Determination of Some Gases – V. G. Kokoulin 294 334
Solvent Extraction of Phosphomolybdic Acid by High Molecular Weight Amines – V. I. Klitina, F. P. Sudakov, and I. P. Alimarin 297 338
A Study of the Composition and Stability of the Iodotellurite Complex – V. I. Murashova 303 345
Titrimetric Determination of Some Nitrogen-Containing Derivatives of Carbonic Acid in Nonaqueous Solution – A. P. Kreshkov, A. N. Yarovenko, and V. N. Nevskaya 307 350
Lithium Aluminum Hydride in Analysis. Communication 2. Determination of Organic Peroxides and Hydroperoxides and of Peroxide Compounds Present as Impurities in Alkyldiacetylenes – A. P. Terent'ev, G. G. Larikova, and E. A. Bondarevskaya 312 355
Separate Halogenometric Determination of Allylic and Fumaric Double Bonds in Polyesters and Their Copolymers – A. I. Tarasov, V. I. Volodina, and S. S. Spasskii 317 360
Polarographic Determination of β-Nitrostyrene and Phenylacetaldoxime in Each Other's Presence – V. M. Chursina, E. F. Litvin, and L. Kh. Freidlin 322 365
Triphenyltetrazole Chloride as an Analytical Reagent. Communication 1. A Study of Triphenyltetrazole Picrolonate (2,3,5-Triphenyl-tetrazole-1-p-nitrophenyl-3-methyl-4-nitro-5-pyrazolone) – A. Aleksandrov and P. Vasileva-Aleksandrova 326 370

BRIEF COMMUNICATIONS

Detection of Magnesium Ions by Means of p-Nitrophenylstibinic Acid – S. G. Pligin 328 373
Complexometric Determination of Thorium in Uranium in the Presence of Tributyl Phosphate – A. I. Ryabinin and Yu. A. Afanas'ev 330 374
The Use of Complexon III (EDTA) in the Persulfate Method for Determining Chromium in Steels – M. A. Shashkin 332 376

Engl./Russ.

Determination of Cobalt in Its Complex Compounds – D. M. Palade 334 377
Determination of Sulfur in Technical Selenium – M. I. Erdenbaeva and Z. M. Usenova 335 378
Analysis of Sodium Ozonide – S. A. Tokareva and G. P. Pilipenko 337 380
Location of Aromatic Amines on Chromatograms – L. N. Nikolenko, N. S. Tolmachev, E. V. Degterev, and A. A. Man'ko 339 382
High-Frequency Titration. Communication 14. A Study of Polyethylenepolyamines – L. P. Krylova, S. T. Baibaeva, and V. A. Zarinskii 341 383

BOOK REVIEWS
E. J. King. Acid–Base Equilibria – Reviewed by B. P. Nikol'skii 343 386
V. S. Asatiani. New Methods of Biochemical Photometry – Reviewed by N. B. Kupletskaya . . 344 386
A. Berka, J. Vulterin, and J. Zyka. Newer Redox Titrants – Reviewed by V. M. Byr'ko 345 386
New Books 346 387

CHRONICLE
The Second International Symposium on "Highly Pure Substances in Science and Technology" – Reviewed by L. M. Ivantsov 347 388

Number 4 April, 1966

An Equation for the Potential of a Silver Halide Electrode in a Flow — A. L. Bystritskii, V. V. Bardin, and V. B. Aleksovskii. 353 393
A Potentiometric Method for Determining Potassium Salts and for Analyzing Their Mixtures with Bases and Acids by Means of Ion-Exchange in Nonaqueous Media — A. N. Yarovenko, K. A. Komarova, and E. K. Kreshkova 356 397
Absorption Flame-Photometric Determination of Rubidium — S. B. Meshkova, Yu. V. Zelyukova, and N. S. Poluéktov 362 405
Separation of Traces of Gallium from Zinc by Partition Chromatography — I. P. Alimarin and T. A. Bol'shova 367 411
An Extraction-Spectrophotometric Method for Determining Thallium — A.P. Kreshkov, L. P. Senetskaya, and A. M. Karagodina 370 415
Spectrophotometric Determination of Titanium as a Pyrocatechol Complex with Picolinic Acid — S. Ya. Shnaiderman and E. N. Knyazeva 374 419
Amperometric Determination of Bismuth by Means of ε-Caprolactam — A. I. Busev, V. K. Akimov, S. I. Bragina, O. S. Zhdamarov, and Z. S. Klochko 376 422
The Reaction between Tri- and Hexavalent Plutonium and Arsenazo III — A. A. Nemodruk and N. E. Kochetkova 380 427
The Use of Two Indicators in Mercurometric Titrations — M. F. Zhul'kova and A. N. Brusentsov 385 433
Coulometric Metallometry.Coulometric Plumbometric Determination of Anions — P. S. Tutundzic and D. J. Stojkovic. 388 436
Determination of Oxygen in Titanium–Tungsten Carbide — V. G. Shcherbakov, Yu. N. Yurkevich, and G. G. Besproskurnov 395 443
Determination of Selenium in Biological Materials — V. V. Koval'skii and V. V. Eermakov . 399 447
Control of Graphite Quality at Flotation Dressing Works by Means of Reflected β-Radiation and Automation of Control — R. Irkovskii 405 455
Chemicospectrographic Determination of Impurities in Mercury — V. G. Tiptsova, É. I. Malkina, and Z. A. Anisimova 408 459
The Present State of X-Ray Emission, Spectrographic Determination of Trace Elements, and Possible Developments (Review) — E. E. Vainshtein and Yu. G. Lavrent'ev. 412 463
A Titrimetric Micromethod for Determining Sulfur in Phosphorus- and Arsenic-Containing Organic Compounds Using a New Indicator Nitchromazo — N. N. Basargin and K. F. Novikova. 423 473

Classification of Liquid Phases on the Basis of Their Relative Polarity and the Separation of Hydrocarbon Mixtures by Gas–Liquid Chromatography — R. I. Sidorov and M. P. Ivanova 429 479
Extraction-Photometric Methods for Alkaloid Determination. Communication 1. Acid-Base Properties of the Components and the Effect of pH on the Extractability of Alkaloid Compounds with Acid Dyes — A. K. Babko and V. S. Konyushko 434 486
A Simple Titrimetric Method for Analyzing Mixtures of Sodium Sorbate, Sodium Hydroxide, and Sodium Carbonate — N. G. Polyanskii and N. L. Polyanskaya 438 491
Quantitative Determination of Some Dialkyl- and Diacyl-peroxides — L. N. Petrova, E. N. Novikova, and A. B. Skvortsova. 441 494

BRIEF COMMUNICATIONS
Photometric Determination of Bromate — F. P. Sudakov and A. E. Skvortsova 445 498
A Study of Complex Formation between Neodymium and Selenenoylacetone and Selenenoyltrifluoroacetone by a Distribution Method — V. M. Peshkova, I. P. Efimov, and N. N. Magdesieva 446 499
3-Methyl-5-propylpyrrole-(2-azo-2')-phenol as a Reagent for the Photometric Determination of Cobalt — A. I. Cherepakhin. 449 502
Radioactivation Determination of Impurities in Antimony — P. I. Artyukhin, E. N. Gil'bert, and V. A. Pronin 452 504
Thin-Layer Chromatography of Cyclic Ketone Peroxides — M. M. Buzlanova, V. F. Stepanovskaya, A. F. Nesterov, and V. L. Antonovskii. 454 506
Determination of Nitrogen by the Kjeldahl Method, without Distilling the Ammonia, by Using Sodium Tetraphenylboron — M. P. Strukova and G. A. Fedorova 457 509
Quantitative Determination of Imidazole-4,5-dicarboxylic Acid Diamide Derivatives — T. A. Mikhailova and N. V. Khromov-Borisov 460 512

CRITICISM AND BIBLIOGRAPHY
K. P. Stolyarov. Chemical Analysis in the Ultraviolet Rays — Reviewed by I. M. Korenman . . 462 514
New Books 463 515

CHRONICLES
Conference on the Analytical Chemistry of Semiconductors — L. S. Kopanskaya 464 516

Number 5 May, 1966

The Coprecipitation Rate of Cations with Sulfides. Communication 1. Formation of Chemical Compounds — N. A. Rudnev and G. I. Malofeeva 469 521
Concentration of Materials in Polarographic Analysis. Communication 7. The Possibility of Using Organic Reagents — Kh. Z. Brainina 476 529
The Effect of Supporting Electrolyte Composition on the Anodic Peaks of Certain Test Elements — A. I. Kamenev, V. B. Luk'yanov, V. N. Figurovskaya, and E. N. Vonogradova 481 535
Flame-Photometric Determination of the Alkali Metals. Communication 1. The Effect of Organic Acids on the Intensity of the Spectral Lines of the Alkali Metals in a Flame — I. G. Yudelevich, V. L. Kustas, N. G. Shepeta, and L. I. Mamontova 487 542
The Chemiluminescent Reaction in the System: Luminol–Copper (II)–Zirconium (IV)–Hydrogen Peroxide — A. K. Babko, L. I. Dubovenko, and L. S. Mikhailova 491 548
Determination of Calcium and Stable Strontium in Food Products — F. I. Pavlotskaya and G. P. Levina 495 553
Determination of Radioactive Strontium in Atmospheric Fall-Out — E. Bakacs-Polgar and I. Kurcz-Csiky 500 558
Extraction-Photometric Determination of Lanthanum as Its Alizarinhydroxyquinolate Complex — L. S. Serdyuk and S. M. Lazorina 502 561

Extraction-Photometric Determination of Microamounts of Tellurium with Tetramethylthiuram Disulfide — V. E. Tutkuvene and E. I. Ramanauskas 504 564
Picraminazo Compounds as Metallochromic Indicators for Bismuth — S. I. Gusev, L. M. Shchurova, and Z. A. Bitovt 507 568
Antipyrine Dyes as Reagents for Heptavalent Rhenium — A. I. Busev and M. B. Ogareva. . . . 513 574
Amperometric Titration of Rhenium. Communication 1. Titration of Rhenium (VII) with Divalent Chromium Salts — Z. A. Gallai, T. Ya. Rubinskaya, and A. V. Fursova 522 584
Coulometric Determination of Permanganate, Dichromate, and Ferric Ions — P. S. Tutundzic and S. N. Mladenovic 527 590
Analysis of Nonferrous Metal Ores by Atomic-Absorption Spectrophotometry — V. L. Ginzburg and G. I. Satarina. 529 593
Organic Coprecipitants — G. V. Myasoedova 533 598
Spectrophotometric Titration of Some Naphthyl Acid Derivatives in Nonaqueous Media — A. P. Kreshkov and L. A. Tumovskii 541 606
Analysis of Sulfosuccinate Salts by Ion-Exchange — V. K. Akimov, O. K. Smirnov, and I. A. Emel'yanova 544 610
A Method for the Qualitative and Quantitative Determination of Organic Phosphorus Compounds on Paper Chromatograms — Yu. P. Prostov, A. N. Bersenev, I. I. Upolovnikova, N. I. Ershova, and V. T. Zaborn'ya 547 614
A Chromatographic Method for Determining Active Hydrogen in Organic Compounds — M. N. Chumachenko, L. B. Tverdyukova, and F. G. Leenson 550 617
Dialkyl Phthalates as Stationary Phases in Gas–Liquid Chromatography — A. G. Shkvyrya and M. S. Vigdergauz 557 625
Separation of Polyalkylene Glycols by Thin Layer Chromatography — I. A. Vakhtina, P. A. Okunev, and O. G. Tarakanov 560 630
Spectrophotometric Determination of Phthalic Acids and Their Dimethyl Esters in Sulfuric Acid — A. I. Lazarev 563 633

BRIEF COMMUNICATIONS

Quantitative Determination of Ethanol in Aqueous Solutions by Gas–Liquid Chromatography — B. V. Lipis, T. A. Manuilova, and N. Kh. Grinberg 566 637
Chronometric Determination of Small Amounts of Calcium and Oxalate Anions — L. T. Martynenko 569 639

CRITICISM AND BIBLIOGRAPHY

New Books 572 642
Moscow Seminar on Analytical Chemistry. 574 643
Yurii Ivanovich Usatenko (On His Sixtieth Birthday) 576 645

Number 6 June, 1966

Extraction of Chelate Compounds Containing Sulfonate Groups in the Absence of Large Cations — Yu. A. Zulotov and V. V. Bagreev. 579 649
The Use of Some Surface-Active Agents for the Polarographic Determination of Elements with Similar Half-Wave Potentials — E. N. Vinogradova, G. V. Prokhorova, L. B. Sveshnikova, and L. A. Sharova. 587 659
Electrolytic Separation of Lead from Microamounts of Thorium and Uranium and Their Photometric Determination — A. A. Starodubskaya, P. N. Kovalenko, and K. N. Bagdasarov 591 663
Photometric Determination of Niobium in Alloy Steel by Means of Sulfochlorophenol S — S. B. Savvin, I. D. Pisarenko, E. I. Yurchenko, and Yu. M. Dedkov. 596 669
Solvent Extraction of Protoactinium and Other Elements as Phenylarsonates — E. F. Myasoedov, E. S. Pal'shin, and N. P. Molochnikova 599 673

Titrimetric and Photometric Determination of Molybdenum in Niobium Alloys by Means of Complexon III (EDTA) — L. Ya. Polyak and I. S. Bashkirova 607 682
Determination of Microamounts of Uranium in Soil, Rocks, and Minerals by Means of Arsenazo III — A. A. Nemodruk and L. P. Glukhova 612 688
The Solubility Products of Nickel and Iron s-Mercaptoquinolates — M. Z. Kharkover and V. F. Barkovskii 617 694
A Spectrophotometric Study of the Reaction Between Divalent Palladium and Complexon III (EDTA) in Perchlorate and Chloride Media — V. I. Shlenskaya, A. A. Biryukov, and N. G. Shumkova 624 702
A Study of the Reduction Products of Silicomolybdic Acid — Z. F. Shakhova, E. N. Dorokhova, and N. K. Chuyan 628 707
Chemico-Spectrographic Analysis of Pure Alkali Metals — Yu. A. Chernikhov, T. V. Cherkashina, M. A. Notkina, E. I. Petrova, I. P. Men'shova, V. I. Lugovskaya, and G. P. Goryanskaya 634 714
Determination of Impurities in High Purity Tantalum and Niobium (Review) — I. M. Gibalo . . 637 718
Potentiometric Determination of ε-Caprolactam — V. K. Akimov, B. N. Kolokolov, and S. M. Gel'fer 646 729
Quantitative Infrared Determination of 7-Aminoenanthic Acid in 9-Aminopelargonic Acid Using the Internal Standard Method. Communication 2. Development of a Method for Enriching Samples — I. A. Titova and M. G. Bel'skaya 650 733
A Chromatographic Method for Identifying Chemical Compounds — A. A. Ainshtein, A. A. Zhukhovitskii, and N. M. Turkel'taub 653 737

BRIEF COMMUNICATIONS

Preparation of Standard Iridium and Rhodium Solutions for Radioactivation Analysis by Electrolytic Dissolution Using an Ac Current — E. M. Lobanov and R. I. Khusnutdinov . 658 743
Analysis of the Alloys of Rare-Earth and Alkaline-Earth Oxides — T. N. Nazarchuk and S. F. Boremskaya 661 745
Removal of Manganese from Solution by Electrolysis on a Mercury Cathode — I. A. Golubeva . 663 748
Determination of Divalent Cobalt — L. T. Martynenko and E. K. Nikitin 665 749
Potentiometric Determination of Chlorine Dioxide, Chlorine, and Their Mixtures in Liquid and Gaseous Phases — K. D. Dobryshin, I. E. Flis, I. M. Vorob'ev, and V. A. Kokushkina 668 752
The Application of an Emission Microspectrographic Method for Analyzing Alloys Used in Semi-Conductor Instruments — V. S. Sotnikov, N. V. Korolev, V. V. Shumova, and M. N. Morozova 671 754
Gas Chromatography of Some Substituted Saturated Cyclic Ketones — A. S. Leshchiner and V. I. Lushchik 674 757

CRITICISM AND BIBLIOGRAPHY

D. Taylor. Neutron Irradiation and Activation Analysis — Reviewed by G. A. Perezhogin 677 760
J. Tolgyessy, Nuclear Radiation in Analytical Chemistry—Reviewed by I. P. Alimarin and O. M. Petrukhin 678 761
R. W. Moshier and R. E. Sievers, Gas Chromatography of Metal Chelates — Reviewed by T. A. Belyabskaya 679 761
New Books 680 762

CHRONICLES

Moscow Seminar on Analytical Chemistry — Yu. M. Dedkov and G. I. Malofeeva 681 763
First Scientific-Technical Conference on the Analytical Chemistry of Nonaqueous Solutions and Their Physicochemical Properties — L. N. Bykova 683 764

Number 7 July, 1966

A Study of the Errors Which Arise during the Analysis of High Purity Materials for Microimpurities. Communication 2. Errors which Arise during Sampling and Preliminary Treatment of Test Material – A. B. Blank 687 769
Flame-Photometric Determination of Potassium in Dry Powdered Soil – S. A. Shipitsyn, V. V. Kiryushkin, and N. Ya. Kuklina 696 779
Photometric Determination of Copper by Means of Potassium Diethanoldithiocarbamate – F. M. Tulyupa, G. E. Bekleshova, and M. A. Vitkina 700 783
Determination of Praseodymium, Neodymium, Holmium, and Erbium in Fluorite Monocrystals – L. V. Krotova 704 789
The Use of Factorial Planning for Choosing Conditions for the Polarographic Determination of Thallium – A. I. Kamenev, V. B. Luk'yanov, V. N. Figurovskaya, and E. N. Vinogradova 707 793
Electrochemical Reduction of Hydrogen Peroxide Catalyzed by Hafnium Compounds – R. K. Sharipov and O. A. Songina 713 800
Concentration of Materials in Polarographic Analysis. Communication 8. Determination of Antimony by Means of Rhodamine C – Kh. Z. Brainina and É. Ya. Sapozhnikova 719 807
Analysis of Magnesium Alloys of the Rare-Earths in Nonaqueous Solution – A. P. Kreshkov, A. N. Yarovenko, and S. M. Milaev 724 813
Measurement of Differences in Isotopic Ratios in Small Volumes of Gases and the Possibilities of Mass-Spectrographic Determination of Microamounts of Oxygen and Nitrogen in Solids – M. S. Chupakhin 727 817
Titrimetric Determination of Sodium Sulfate in Sodium Alkyl Aryl Sulfonates and Sodium Alkyl Sulfates – A. I. Busev, V. K. Akimov, and S. I. Bragina 734 826
Photometric Methods of Determining Aluminum (Review) – V. N. Tikhonov 737 829
Determination of Small Amounts of Water in Organic Compounds on the Basis of the Absorption Spectra in the Region of the Main Frequencies of OH-Group Valence Vibrations – A. V. Karyakin, A. V. Petrov, É. É. Senderov, and A. I. Sukhanovskaya 749 840
Polarographic Determination of Carboxyl Compounds Formed during the Ozonolysis of Phenanthrene – N. D. Rus'yanova, V. G. Koksharov, and G. F. Belyaeva 757 850
Gas Chromatographic Analysis of Aqueous Solutions – V. A. Balandina and M. S. Kleshcheva 761 855
A Study of the Chromatographic and Electrophoretic Behavior of Pyridine Derivatives – A. N. Kost, L. A. Golovleva, P. B. Terent'ev, and M. Islam 765 859

BRIEF COMMUNICATIONS

Separation of the Evaporation and Excitation Zones during Spectrographic Analysis with a Hollow Cathode – G. A. Pevtsov and V. Z. Krasil'shchik 769 863
A Spark Method for the Spectrographic Determination of the Rare-Earths in Solution – L. I. Karpenko, L. A. Fadeeva, and S. V. Bel'tyukova 771 864
Determination of Dysprosium in Yttrium Oxides and Ferrite Garnet Samples by a Radioactivation Method – E. M. Lobanov, A. G. Dutov, and G. V. Leushkina 774 867
Oxidation of Complexon III (Sodium Ethylenediaminetetracetate) on a Graphite Electrode and Its Use for the Amperometric Determination of Zirconium and Sulfur in Organic Compounds – E. A. Terent'eva and M. V. Bernatskaya 777 870
Determination of Zirconium and Hafnium Concentrations in Solution by Titration with Diethylamine Solution – O. A. Sinegribova and G. A. Yagodin 780 872
Separation of Ionium (Th^{230}_{90}) from Uranium, Protactinium, Iron, Manganese, and Europium by Cation-Exchange – P. N. Palei, Z. K. Karalova, N. P. Shibaeva, and Z. I. Pyzhova 782 874
The Use of Alkyl Phosphoric Acids in Analytical Chemistry. Communication 4. Extraction of Bismuth with Alkyl Phosphoric Acids and the Possibility of Separating It from Accompanying Elements – I. S. Levin, A. A. Shatalova, and T. G. Azarenko 784 876

Neutron Activation Determination of Traces of Manganese Using Substoichiometric Separation – G. A. Perezhogin 787 879
Determination of Iron, Aluminum, and Chromium in Refractory Materials by Means of Complexon III (Sodium Ethylenediaminetetracetate) and Ion-Exchange Resins – G. N. Babachev 789 881
Photometric Determination of Phosphorus as Phosphoferrimolybdic Acid – E. N. Dorokhova, Z. F. Shakhova, and L. A. Sazanova 793 884
Potentiometric Titration of Monobasic Perfluoro Acids in the Presence of Hydrofluoric Acid in Nonaqueous Media – M. N. Chelnokova and E. I. Patyukova 795 886
Paper Chromatography of Anthraquinone Derivatives. Communication 2. Monohalogeno- and Dihalogenoanthraquinones Containing Different Halogens – N. S. Dokunikhin, B. N. Kolokolov, and O. A. Egorova 797 888
Gas Chromatographic Analysis of High Molecular Weight Primary Amines – A. I. Parimskii, A. A. Potatuev, and I. K. Shelomov 799 891
Thin Layer Chromatography of Sulfoxides – E. N. Karaulova, T. S. Bobruiskaya, and G. D. Gal'pern 802 893
CRITICISM AND BIBLIOGRAPHY
Modern Analytical Methods (Methods for Studying the Chemical Composition and Structure of Materials). On the Seventieth Anniversary of Academician A. P. Vinogradov – Reviewed by A. M. Dymov 805 897
CHRONICLE
Moscow Seminar on Analytical Chemistry – Yu. M. Dedkov 809 901

Number 8 August, 1966

Some Questions of Linear Precipitation Titration. Communication 1. Additional Data on the Conditions for the Existence and Position of Extrema on Titration Curves – B. M. Mar'yanov. 811 905
New Spectrophotometric Inorganic Reactions of Very High Selectivity and Sensitivity – T. S. West. 818 913
The Effect of the Double Bond on the Retention Volume of Aliphatic Compounds in Gas-Liquid Chromatography – A. N. Korol' 823 920
The Possibilities of Quantitative Determination in Precipitation Chromatography – A. A. Lur'e 830 929
Determination of Copper with Diethyldithiocarbamate Using the Iodine–Azide Reaction – A. K. Babko, L. V. Markova, and M. U. Prikhod'ko. 835 935
α,α'-Dipyridyl as an Activator during Determination of Microamounts of Silver by a Kinetic Method – É. Yasinskene and É. Yankauskene. 839 940
Glycinecresol Red as a Reagent for the Photometric Determination of Gallium – P. P. Kish and Yu. K. Onishchenko 842 944
An Express Method for Separating Ionium (Th^{230}) from Sulfuric Acid Solutions of Uranium – Z. K. Karalova, N. P. Shibaeva, and Z. I. Pyzhoba 847 950
Separation of Protoactinium from Other Elements by Sorption on Activated Charcoal Saturated with Phenylarsonic Acid – E. S. Pal'shin, B. F. Myasoedov, and Yu. P. Novikov. 851 954
Amperometric Determination of Rhenium. Communication 2. Titration of Heptavalent Rhenium with Solutions of Trivalent Titanium Compounds – Z. A. Gallai and T. Ya. Rubinskaya 857 961
Coulometric Titration of Tetravalent Ruthenium with Electrically Generated Titanium – N. I. Stenina and P. K. Agasyan 861 965
Photometric Determination of Germanium by Means of Rezarson – A. M. Lukin, O. A. Efremenko, and B. L. Podol'skaya. 865 970

Conductometric Determination of Sodium Sulfate in Sodium Alkyl Aryl Sulfonates and Alkyl Sulfates — V. K. Akimov, A. I. Busev, S. I. Bragina, and O. K. Smirnov 870 976
Determination of Impurities in High Purity Cadmium — N. V. Grushina, V. I. Tsevun, G. V. Khrapchenkova, M. I. Erdenbaeva, and L. F. Kozin. 873 980
Chromatographic Determination of Microimpurities in High Purity Helium — V. S. Mirzayanov and B. P. Okhotnikov 878 985
Chromato-Mass-Spectrometry. Communication 3. Analysis of Some Classes of Organic Materials — G. D. Tantsyrev, V. I. Gorshkov, S. T. Kozlov, and V. L. Tal'roze. 881 989
Determination of Pyridine and Quinoline Bases and Pyridine Carboxylic Acids by Nonaqueous Titration — V. K. Kondratov, N. D. Rus'yanova, and N. V. Malysheva 887 996
Titrimetric Determination of Alginic Acids — M. A. Antonova and V. A. Evtushenko 891 1001
Determination of Acetone with Iodic Acid in the Presence of Furfural — V. I. Tikhonova 893 1004

BRIEF COMMUNICATIONS

Calculation of Equilibrium in Stepwise Complex Formation — V. P. Vasil'ev 898 1010
Some Problems in Establishing the Optimum Conditions for the Radioactivation Analysis of Binary Systems — Yu. A. Tsirlin, A. Ya. Gel'fman, and E. P. Mokhir. 901 1012
Flame Spectrophotometric Determination of Microamounts of Lithium, Rubidium, and Cesium — E. D. Prudnikov. 904 1015
Rapid Determination of Copper by a Differential Spectrophotometric Method — V. N. Tikhonov and M. Ya. Grankina 906 1016
Fluorimetric Determination of Yttrium in Mixtures of the Rare-Earth Elements After Paper Chromatographic Separation — A. I. Kirillov, R. S. Lauér, and N. S. Poluéktov. . . 908 1018
Polarographic Determination of Zinc in Tungsten–Copper–Nickel Alloys — I. N. Godovannaya, T. N. Nazarchuk, and O. I. Popova 910 1020
Interaction of Gallium Ions with Pyrocatechol Violet — M. K. Akhmedli, E. A. Bashirov, E. L. Glushchenko, and L. I. Zykova.. . . . . 912 1022
Thin Layer Chromatography of the Ethanolamines and Their Vinyl Esters — I. A. Chekulaeva, I. B. Bystrova, G. V. Talypina, and S. A. Ostrovskii 916 1026

CRITICISM AND BIBLIOGRAPHY

M. I. Bulatov and I. P. Kalinkin. Practical Textbook on Colorimetric and Spectrophotometric Methods of Analysis — Reviewed by A. B. Blank. 919 1029

Number 9 September, 1966

Kinetics of the Reaction between Hexavalent Chromium and Mercury Metal — T. G. Pokhvalitova, E. F. Speranskaya, and N. M. Nasonkina 921 1033
Pyridylazo Compounds as Metallochromic Indicators. Communication 3. New Azo Compounds of the Pyridine Series and Their Use as Indicators for the Complexometric Determination of Bismuth — S. I. Gusev and L. M. Shchurova. 927 1042
The Use of Cinnamic Acid in Analytical Chemistry. Communication 8. Precipitation of the Rare-Earths and Yttrium and Their Separation from Manganese, Nickel, Cobalt, Zinc, Calcium, and Magnesium — É. A. Ostroumov and I. I. Volkov. 934 1050
Extraction Separation of the Rare Earths for Their Subsequent Determination – L. L. Galkina and L. A. Glazunova 941 1058
Absorption Spectra of Tetra- and Pentavalent Protoactinium in Sulfuric Acid Solutions — B. F. Myasoedov, K. F. Miranda, and R. Mukhart 946 1064
Determination of Uranyl on the Basis of Its Catalytic Effect on Oxalate Photolysis — A. K. Babko and L. M. Ginzburg 951 1070
Arsenazo III and Some of Its Analogs as Reagents for Plutonium – S. B. Savvin and M. S. Milyukova 955 1075

Some β-Mercaptohydrocinnamic Esters as Analytical Reagents for the Extraction-Photometric Determination of Nickel — A. I. Busev and D. Kh. Vin' 960 1082
Photometric Determination of Phosphorus and Silicon as Their Heteropolyacids Using Stannous Oxalate as Reducing Agent — F. P. Sudakov, V. I. Klitina, and N. T. Maslova 965 1089
Gas-Liquid Chromatographic Analysis of a Mixture of Carbon Dioxide, Chlorine, Nitrosyl Chloride, and Sulfur Dioxide — M. F. Prokop'eva, V. K. Bukina, K. Sh. Mar'yanovskaya, and A. A. Shemetikhina 972 1098
Applicability of the Schoniger Flask Method for Determining Halogens in Organic Materials — Kh. Ya. Kuus and L. A. Lipp 976 1103
Paper Chromatographic Separation of Alkyl Phosphates and Alkyl Phosphites – N. I. Gabov and A. I. Shafiev 979 1107
Determination of Microimpurities on a Chromato-Mass-Spectrometer – G. D. Tantsyrev, V. I. Gorshkov, S. T. Kozlov, and V. L. Tal'roze 984 1113
Quantitative Infrared Spectrophotometric Determination of the cis- and trans-Isomers of 4-Aminocyclohexyl Acetic Acid (as Pressed Discs) — I. A. Titova and M. G. Bel'skaya . 989 1118
Thin Layer Chromatography of 3-Ketosteroids. Communication 1. The Use of Weakly Alkaline Alumina — B. Kh. Nguen and A. A. Chemerisskaya 993 1123

BRIEF COMMUNICATIONS

The Possibility of Cutting Down Coprecipitation of Some Cations with Aluminum Hydroxide in the Presence of Glycine — I. L. Teodorovich and R. I. Gutnikova 996 1127
Electrodeless Tubes with High-Frequency Excitation of the Spectrum of In, Ga, Bi, Sb, Tl, Pb, Mg, Ca, and Cu as a Radiation Source in Atomic Absorption Analysis — N. P. Ivanov, L. V. Minervina, S. V. Baranov, L. G. Pofralidi, and I. I. Olikov. 998 1129
Microdetermination of Copper in Copper-Containing Organic Compounds – T. V. Reznitskaya, and E. I. Burtseva 1001 1132
Photometric Determination of Traces of Thorium by Means of Arsenazo III in Preparations Containing Large Amounts of Zirconium and Uranium – Z. K. Karalova, N. P. Shibaeva, and Z. I. Pyzhova 1003 1133
Photometric Determination of Zirconium in Aluminum Alloys by Means of Arsenazo III — I. S. Mustafin, V. S. Shchukina, and I. V. Malinina 1006 1136
Successive Determination of Niobium, Molybdenum, and Aluminum — A. Ya. Sheskol'skaya. . 1009 1138
Photometric Determination of Anthrone with Phosphomolybdic Acid – V. N. Khrustaleva, E. P. Yakushkina, and V. V. Kozlov 1012 1141
Determination of Water by Acidimetric Titration in Nonaqueous Media – V. S. Markevich. . . 1015 1143
Determination of Impurities in Ethyl Acrylate by Means of Capillary Chromatographic Columns — T. M. Lyutova and A. Ya. Lazaris 1017 1146
Spectrophotometric Determination of Pyromellitic Anhydride in the Oxidation Products of Durene and in Pure Samples — N. P. Anashkina and M. T. Golikova 1019 1147

CRITICISM AND BIBLIOGRAPHY

A. P. Kreshkov, L. N. Bykova, and N. A. Kazaryan. Nonaqueous Titration of Inorganic and Organic Compounds — Reviewed by A. M. Shkodin 1022 1150
D. I. Éristavi, F. I. Brouchek. Analytical Methods for Boron Determination — Reviewed by A. A. Nemodruk 1023 1151
"Talanta," Vol. 12, No. 12, December 1965, Heyrovsky Honor Issue — Reviewed by B. Ya. Kaplan 1025 1152
New Books 1027 1153

CHRONICLES

Conference on the Use of Physicochemical Methods in Analytical Chemistry — B. F. Myasoedov and S. B. Savvin 1028 1154
Moscow Seminar on Analytical Chemistry — Yu. M. Dedkov. 1030 1155
Odessa Seminar on Analytical Chemistry — S. Ya. Vinkovetskaya 1032 1157

Number 10 October, 1966

Coprecipitation Rate of Cations with Sulfides. Communication 2. Solid Solution Formation – N. A. Rudnev and G. I. Malofeeva 1033 1161
Choice of Conditions for the Ion-Exchange Concentration and Determination of Microimpurities during Analysis of High Purity Materials – N. G. Nikitina, N. K. Galkina, and M. M. Senyavin. 1036 1165
A Spectrophotometric Study of the Complexes of Certain Elements with Methyl Thymol Blue – V. N. Tikhonov 1043 1172
Extraction-Photometric Determination of Traces of Silver in Pure Selenium and Tellurium by Means of 1,5-Di-(β-napthyl)-thiocarbazone – V. G. Tiptsova, A. M. Andreichuk, and L. A. Bazhanova 1049 1179
A Study of Pyridylazo Compounds as Reagents for Indium. Communication 3. Complexometric and Spectrophotometric Determination of Indium with Brominated Pyridylazoaminocresol Derivatives – S. I. Gusev and É. M. Nikolaeva. 1053 1183
A Polarographic Study of the Composition of a Complex Gallium Ion in Pyrocatechol Chloride Solutions – A. I. Zelyanskaya and L. Ya. Kukalo 1059 1191
Determination of Small Amounts of Terbium, Dysprosium, and Gadolinium in Yttrium Oxide by a Luminescence Method – A. V. Karyakin, L. I. Anikina, and L. A. Filatkina 1063 1196
Express Determination of Niobium in Rocks and Minerals by Paper Partition Chromatography – V. I. Bogdanova and L. S. Shulik 1067 1201
Photometric Determination of Niobium in Alloy Steels and Nickel Based Alloys – V. F. Mal'tsev, É. N. Pashchenko, and N. P. Volkova 1070 1205
Photochemical Reactions in Analytical Chemistry. Communication 1. Use of the Photochemical Reduction of Uranium (VI) to Uranium (IV) for Its Titrimetric Determination in Sulfuric Acid Solutions – A. A. Nemodruk and E. V. Bezrogova 1074 1210
Solvent Extraction of the Chelate Compound of Plutonium (IV) with 1-Phenyl-3-methyl-4-benzoylpyrazolone-5 – Yu. A. Zolotov, M. K. Chmutova, and P. N Palei 1079 1217
Determination of Tetravalent Iridium with Electrogenerated Copper (I) – N. I. Stenina and P. K. Agasyan 1084 1223
Effect of Copper Ions on the Reduction of Synthesized Phosphomolybdic Acid by Sodium Sulfite – L. P. Tsyganok and B. E. Reznik 1087 1227
Determination of Microimpurities in Special Purity Rubidium and Cesium Arsenates – A. F. Fedyashina, I. G. Yudelevich, and T. G. Strokina 1091 1232
Determination of Aluminum in Heteroorganic Compounds Containing Silicon and Phosphorus – M. P. Strukova and T. V. Kirillova. 1095 1236
Determination of Low Concentrations of C_1–C_4 Hydrocarbons in Nitrogen Oxides – V. S. Mirzayanov, V. G. Berezkin, and V. A. Nikol'skii 1098 1239
High-Frequency Conductometric Determination of Acid Groups in Lignins – V. M. Reznikov and O. N. Chudnovskaya. 1102 1243
Polarographic Determination of Maleic Acid Diesters – V. K. Akimov, A. I. Busev, O. S. Zhdamarov, and O. K. Smirnov 1106 1248

BRIEF COMMUNICATIONS

Some Special Features of the Analysis of Special Purity Reagents – A. K. Babko, G. S. Lisetskaya, Z. I. Chalaya, and T. L. Olefirenko 1110 1253
The Solubility and Acid Properties of α-Furildioxime – P. B. Mikhel'son and V. I. Kozachek . 1112 1255
Complexometric Ultramicrotitration of Nickel by Means of a Mercury Electrode – I. P. Alimarin and M. N. Petrikova 1114 1257
Titrimetric Determination of Sodium by Means of Anion-Exchange Resins – A. I. Ryabinin, Yu. A. Afanas'ev, and I. A. Aksenov. 1116 1258
Separation of Small Amounts of Rhenium and Tungsten by Means of Zirconium Hydroxide – V. I. Plotnikov and V. L. Kochetkov 1118 1260
Semimicromethod for the Determination of the Isotopic Composition of Oxygen in Water by Exchange of H_2O^* with $KMnO_4$ – I. I. Vol'nov, V. N. Chamova, and K. M. Salimova 1120 1262

Determination of Nitrogen in Titanium by an Isotope-Dilution Method — K. B. Orlova and É. N. Vitol' 1122 1263
Determination of Selenium in Organic Materials by the Oxygen Flask Method – Kh. Ya. Kuus and L. A. Lipp 1125 1266
Cathodic Pulse Polarography with Accumulation. Determination of Tellurite and Selenosulfate — B. Ya. Kaplan and A. S. Rezakova 1128 1268
Simultaneous Polarographic Determination of Iron and Cobalt — E. A. Terent'eva and T. M. Malolina 1131 1271
Spectrophotometric Analysis of the Liquid Phase Oxidation Products of p-Cymene by Oxygen Using Mathematical Treatment of the Results — V. S. Grinev and G. M. Panchenkov . . 1134 1274
Quantitative Determination of Carbohydrazide and Its Derivatives by Potentiometric Titration with Sodium Nitrite — A. P. Grekov and D. K. Yarovoi 1137 1276
Quantitative Determination of Arylsulfohydrazides and Their N'-Acyl Derivatives — N. N. Dykhanov and A. B. Dzhidzhelava 1139 1277
Gas Chromatographic Determination of the Purity of Monoethylene Glycol and Triethylene Glycol — E. M. Perepletchikova and A. Ya. Lazaris 1141 1280

CRITICISM AND BIBLIOGRAPHY
E. A. Peregud and E. V. Gernet. Chemical Analysis of the Air in Industrial Plants — Reviewed by N. V. Kostin 1143 1282
Trace Analysis. Physical Methods — Reviewed by Yu. I. Belyaev and Yu. V. Yakovlev 1145 1283
F. E. Beamish. The Analytical Chemistry of the Noble Metal—Reviewed by A. I. Busev and V. I. Shlenskaya 1146 1283
New Books 1147 1284

CHRONICLES
Moscow Seminar on Analytical Chemistry — G. I. Malofeeva and N. G. Nikitina 1148 1285

Number 11 November, 1966

The Use of Freezing in Gravimetric Analysis. Communication 1. Crystalline Precipitates — V. L. Zolotavin, V. N. Sanatina, and V. P. Nesterenko 1149 1289
The Use of Phenomena Connected with the Kinetics of the Ionization Process of the Alkali Metals in Flame Photometric Analysis — S. B. Meshkova, N. S. Poluéktov, and M. P. Nikonova 1153 1293
Chlorophosphonazo III as a Reagent for the Spectrophotometric Determination of Barium — A. M. Lukin, K. A. Smirnova, and T. V. Chernysheva 1159 1300
The Use of Tributyl Phosphate for Extracting Microamounts of Cerium during Steel Analysis — Yu. G. Eremin, V. V. Raevskaya, and P. N. Romanov 1162 1303
The Effect of Sample Composition on the Line Intensity of Molybdenum, Tungsten, and Tin during Their Spectrographic Determination in Rocks and Minerals — G. F. Ivanova 1165 1307
Photometric Determination of Nickel by Means of β-Mercaptocinnamic and β-Mercapto-Hydrocinnamic Acids — A. I. Busev and D. Kh. Vin' 1168 1311
Determination of Tetravalent Ruthenium by a Potentiostatic Coulometric Method — N. I. Stenina, Yu. A. Krylov, and P. K. Agasyan 1174 1319
Spectrophotmetric Determination of Nickel, Cobalt, and Chromium in Steels. Communication 1. Estimation of Systematic Errors Arising as a Result of Undetermined Components — N. P. Komar' and L. S. Palagina 1178 1324
Extraction-Photometric Determination of Phosphorus as Reduced Safraninephosphomolybdate — F. P. Sudakov, V. I. Klitina and T. Ya. Dan'shova 1186 1333
Concentration of Materials in Polarographic Analysis. Communication 9. Determination of Iodide Ions. — Kh. Z. Brainina and É. Ya. Sapozhnikova 1192 1342

Thin Layer Chromatography in Inorganic Analysis. Communication 1. The Possibilities of Inorganic Thin Layer Chromatography (Review) — D. I. Ryabchikov and M. P. Volynets 1197 1348
Determination of Phosphorus and Titanium in Heteroorganic Compounds — M. P. Strukova and V. N. Kotova 1204 1354
Polarographic Determination of α-Tetraloneoxime in γ-(o-Aminophenyl)-butyrolactam — N. A. Lezhneva and E. A. Kruglov 1208 1358
Quantitative Infrared Determination of the cis-Isomer in Mixtures of cis- and trans-β-(4-Aminocyclohexyl)-propionic Acids. Communication 2. Design of Experiments for Assessing the Errors Caused by Variations in Experimental Conditions — I. A. Titova and Yu. I. Volodarskaya 1212 1363
The Relationship between the Efficiency of Packed Capillary Columns and Experimental Parameters — V. G. Berezkin, A. T. Svyatoshenko, and L. N. Klement'evskaya . . . 1215 1367
Thin Layer Chromatography of 3-Ketosteroids. Communication 2. The Use of Acid Alumina. — B. Kh. Nguen and A. A. Chemerisskaya 1221 1375
Determination of 2,4- and 2,6-Dinitrotoluenes in Their Mixtures — A. Ya. Kaminskii, Z. A. Kozina, and S. S. Gitis 1226 1380
Determination of Benzene Polycarboxylic Acids in the Oxidation Products of Some Natural Materials — L. A. Kodina and V. N. Generalova 1230 1385

BRIEF COMMUNICATIONS

The Analytical Possibilities of Salicylal-2-aminophenol. Communication 2. The Hydrolyzability of Salicylal-2-aminophenol as a Factor Which Complicates Studies on the Properties of the Reagent. — A. A. Tumanov and V. S. Efimychev 1234 1390
A Study of the Fluorescent Reaction Given by Phenyl Salicylate with Terbium — L. I. Kononenko, S. A. Mishchenko, and N. S. Poluektov 1237 1392
Amperometric Titration of Trivalent Vanadium with Tiron — I. A. Tserkovnitskaya and M. F. Grigor'eva 1240 1395
Quantitative Determination of Isocyanates — A. P. Grekov, V. V. Shevchenko, and K. A. Kornev 1243 1398

CRITICISM AND BIBLIOGRAPHY

T. A. Turney. Oxidation Mechanism — Reviewed by A. I. Busev and V. M. Byrko 1245 1400
F. Szabadvary. History of Analytical Chemistry—Reviewed by M. G. Tsyurupo 1247 1401

CHRONICLES

Second All-Union Conference on the Use of Organic Reagents in Analytical Chemistry. — Reported by I. S. Mustafin and N. S. Frumina 1249 1402

OBITUARY

Emmanuil Efimovich Vainshtein 1252 1405

Number 12 December, 1966

A Study of the Absorption Flame-Photometric Method of Determining Lithium —Yu. V. Zelyukova, M. P. Nikonova, and N. S. Poluektov 1255 1409
A Spectrophotometric Study of Some Hydroxyazo Compounds as Reagents for Scandium—A. I. Busev, G. E. Lunina, and N. N. Basargin 1259 1414
Radioactivation Determination of Bismuth in Mineral Raw Material—E. A. Lobanov and A. V. Yankovskii 1264 1420
Extraction-Photometric Determination of Niobium in Alloy Steel by Means of Sulfochlorophenol S—S. B. Savvin, P. N. Romanov, and Yu. G. Eremin 1267 1423
Quantitative Separation of Niobium from Fluoride Solutions—A. I. Ponomarev and Yu. I. Bykovskaya 1270 1427

	Engl./Russ.
Titrimetric Determination of Tantalum as a Hydroperoxyphosphotantalum Complex	1273 1430
New Photometric Methods for Determining Niobium and Tantalum in Metals and Alloys. Communication 5. A Study of the Niobium Complex of Methyl Thymol Blue. —S. V. Elinson and N. A. Mirzoyan	1278 1436
Spectrographic Determination of Small Amounts of Palladium and Ruthenium in Aluminum Oxide—B. M. Talalaev	1284 1443
Determination of Impurities in Gallium and Indium Phosphides—B. D. Brodskaya, M. A. Notkina, S. A. Korneeva, and N. P. Men'shova	1287 1447
Determination of Oxygen in Molybdenum by Activation with Fast Neutrons —A. V. Andreev, I. Ya. Barit, R. M. Musaelyan, and I. M. Pronman	1292 1453
Chemicospectrographic Methods for the Analysis of High Purity Metals and Semiconducting Materials after Extracting the Main Component with β,β'-Dichlorodiethyl Ether. Communication 1. Analysis of High Purity Antimony—I. G. Yudelevich, P. I. Artyukhin, L. S. Chuchalina, N. P. Protopopova, L. M. Skrebkova, É. N. Gil'bert, and V. A. Pronin	1296 1457
Differential Potentiometric Titration of Mixtures of Strong Oxidizing Agents with Methyl Orange Solutions—S. A. Gusinskaya	1300 1462
Direct Voltammetric Titration of Selenium (IV) with Potassium Iodide Solution —L. B. Agasyan, E. R. Nikolaeva, and P. K. Agasyan	1306 1470
1,4-Diphenylthiosemicarbazide as a Reagent for Selenium—S. G. Sushkova and V. N. Murashova	1310 1475
A Chronopotentiometric Method for Titrating Acids in Nonaqueous Solution —A. P. Kreshkov, G. P. Svistunova, and V. D. Matveev	1315 1481
Chemical Concentration of Microimpurities prior to Their Gas Chromatographic Determination—V. G. Berezkin and O. L. Gorshunov	1320 1487
Thin-Layer Chromatography of Organic Peroxides—M. M. Buzlanova, V. F. Stepanovskaya, and V. L. Antonovskii	1324 1491
BRIEF COMMUNICATIONS	
The Effect of Electrode Rotation on Curve Shape during Amperometric Titration with Two Indicator Electrodes—A. I. Filenko	1328 1495
Polarographic Determination of Yellow Phosphorus in Ethanol Solutions—A. P. Tomilov and I. M. Osadchenko	1331 1498
Extraction of Titanium with 2-Ethyl Hexyl Phosphoric Acids. Communication 2. Complexometric Determination of Titanium in the Back-Extract—Yu. B. Kletenik and I. A. Bykhovskaya	1333 1499
Polarographic Determination of Oxalic Acid on a Platinum Anode in Aqueous Solutions —A. G. Kornienko, L. A. Mirkind, and M. Ya. Fioshin	1336 1501
Thin-Layer Chromatography of Phenols. Communication 1. A Sensitive Method for Developing Chromatograms—N. F. Egorova and A. Yu. Koltunovskaya	1338 1504
Qualitative Detection of Methyl Thiouracil—V. I. Lobanov	1340 1506
BOOK REVIEWS	
S. B. Savvin. Arsenazo III. Photometric Methods for Determining Rare Elements and the Actinides—Reviewed by S. V. Elinson	1342 1508
Houben-Weyl. Methoden Der Organishchen Chemie—Reviewed by A. I. Busev	1344 1509
G. Pataki. Thin-Layer Chromatography in Amino Acids and Peptide Chemistry —Reviewed by R. S. Sagitullin	1345 1509
D. P. Shcherbov. Fluorimetry in the Chemical Analysis of Mineral Raw Material —Reviewed by A. P. Golovina	1346 1510
S. G. Mairanovskii. Catalytic and Kinetic Waves in Polarography —Reviewed by B. Ya. Kaplan	1347 1511
New Books	1349 1512

Engl./Russ.

CHRONICLES

Valeri Leonidovich Zolotavin—On His Sixtieth Birthday 1350 1513

Fourth International Congress on Polarography—Reviewed by S. I. Sinyakova 1351 1514

Moscow Seminar on Analytical Chemistry—Reviewed by Yu. M. Dedkov 1353 1515

INDEX

Author Index 1357

Table of Contents 1362